

North Carolina

Climate Action Plan Advisory Group

NC Legislative Commission on Global Climate Change -- CAPAG Update

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Introduction

- First Round of Recommendations Will Come From CAPAG After Its Meeting on January 24, 2007
- Results of Draft Mitigation Options Are Preliminary
 - Several in process of being quantified
 - Not yet considered by CAPAG
 - Design and analysis may be modified by the CAPAG at the next or subsequent meetings
- Considerable Opportunity for Economic Benefit to NC Through the Mitigation Options Being Considered
- Comment and Advice From LCGCC Welcome

Today's LCGCC Meeting

- Review Draft CAPAG Mitigation Options
 - Summary list of draft options and initial results
 - Detailed draft mitigation option templates at www.ncclimatechange.us
 - Beginning of CAPAG voting process on final recommendations
 - Beginning of CAPAG process of formulating alternatives to address barriers to consensus
 - LCGCC feedback helpful to CAPAG decisions

Next LCGCC Meeting

- Review Results of CAPAG Meeting #5 on January 24, 2007
 - First round of approval by CAPAG on individual mitigation options
 - Additional CAPAG meetings will continue process of identifying agreement, structuring further development of options with barriers

Interim Report to LCGCC

- Progress on development of draft CAPAG mitigation policy options
 - Summary list and initial results of analysis
 - Detailed initial results of analysis for each mitigation option
 - Detailed descriptions, design and template for each mitigation option
 - Potential cumulative GHG reduction and cost/cost savings for all draft mitigation options

CAPAG Work Plan

- Meetings in May, July to finalize recommendations
- Additional meetings possible
- LCGCC feedback can be considered as input to decisions
- Final report with recommendations and analysis to DENR from CCS at conclusion
- CAPAG can provide additional development of final recommendations of interest to LCGCC, if/as needed
- DENR, CCS can provide technical assistance on development of LCGCC recommendations, if/as needed

Draft CAPAG Mitigation Options

- Current Number of Draft Potential Mitigation Options (52)
 - Residential, Commercial and Industrial (11)
 - Energy Supply (10)
 - Transportation and Land Use (13)
 - Agriculture, Forestry and Waste Mgmt (12)
 - Cross Cutting Issues (6)
- Original Number of Potential Options from Catalog of States Actions (251)
- Updated Number of Potential Options, Including CAPAG Additions (307)

Draft Mitigation Option Template

Mitigation Option Description

Mitigation Option Design

Implementation Mechanisms

Related Policies/Programs in Place

Types(s) of GHG Reductions

Estimated GHG Savings and Costs per MTCO₂e

Key Uncertainties

Additional Benefits and Costs

Feasibility Issues

Status of Group Approval and Level of Group Support

Barriers to Consensus, if Any

Key Decision Variables for Draft Mitigation Options

- Design
 - Goals, Timing, Participation
- Type of implementation mechanism
 - Codes & Standards, Funding programs, Technical Assistance, Voluntary & Negotiated Agreements, Market Based Systems, Information & Education, Disclosure & Reporting, Etc.
- Analysis
 - Data sources, Methods, Assumptions

Residential, Commercial, Industrial/Institutional

1. Demand Side Management Programs for the Residential, Commercial and Industrial Sectors
2. Expand Energy Efficiency Funds
3. Energy Efficiency Requirements for Government Buildings
4. Market Transformation and Technology Development Programs
5. Improved Appliance and Equipment Efficiency Standards
6. Building Energy Codes
7. “Beyond Code” Building Design Incentives and Targets, Incorporating Local Building Materials and Advanced Construction
8. Education (Consumer, Primary/Secondary, Post-Secondary/ Specialist, College and University Programs)
9. Green Power Purchasing (required for state facilities) and Bulk Purchasing Programs for Energy Efficiency or Other Equipment
10. Distributed Renewable and Clean Fossil Fuel Power Generation
11. Residential, Commercial, and Industrial Energy and Emissions Technical Assistance and Recommended Measure Implementation

Energy Supply

1. Renewable Energy Incentives
2. Environmental Portfolio Standard
3. Removing barriers to CHP and clean DG
4. CO2 tax and/or cap-and-trade
5. Legislative changes to address environmental & other factors
6. Incentives for advanced coal
7. Public Benefit Charge
8. Waste to Energy
9. Incentives for CHP and clean DG
10. NC Greenpower renewable resources program

Transportation and Land Use

1. Land Development Planning
2. Multi-modal Transportation & Promotion
3. Feebates to raise revenue
4. Feebates to change fleet mix
5. Truck-stop Electrification
6. Tailpipe GHG Standards
7. Biofuels Bundle
8. Procure Efficient Fleets
9. Anti-idling
10. Diesel Retrofits
11. Fuel tax (50 cents/gallon)
12. Pay As You Drive Insurance
13. Incentives for Advanced Tech Vehicles

Agriculture, Forestry & Waste Management

1. Manure Digesters & Energy Utilization
2. Biodiesel Production (incentives for feedstocks and production plants)
3. Soil Carbon Management
4. Preserve Agricultural Land
5. Agricultural Biomass Feedstocks for Electricity or Steam Production
6. Policies to Promote Ethanol Production
7. Forest Protection – Reduced Clearing and Conversion to Nonforest Cover
8. Afforestation and/or Restoration of Nonforested Lands
9. Expanded Use of Forest Biomass
10. Better Forest Management
11. Landfill Methane and Biogas Energy Programs
12. Increased Recycling Infrastructure and Collection

Cross Cutting Issues

1. GHG Inventories and Forecasts
2. GHG Reporting
3. GHG Registry
4. Public Education and Outreach
5. Adaptation
6. Options for Goals or Targets (for CAPAG in support of LCGCC)

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